

1. A crystal form of 2-amino-7-(ethanimidoylamino)-2-methylhept-5-enoic acid.
2. A crystal form of 2-amino-7-(ethanimidoylamino)-2-methylhept-5-enoic acid characterized by at least one physical measurement selected from the group consisting of: x-ray powder diffraction pattern as shown in Fig. 3, Raman spectrum as shown in Fig. 6, melting point of 224 °C and a heat of fusion of 147 joules gram⁻¹.



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4. A pharmaceutical composition comprising an effective amount of (2*S*,5*Z*)-2-amino-2-methyl-7-[(1-iminoethyl)amino]-5-heptenoic acid, 1.5 hydrochloride, together with a pharmaceutically acceptable carrier.

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5. A method for the prophylaxis or treatment of a clinical condition in a mammal, such as a human, for which an inhibitor of nitric oxide synthase is indicated, which comprises administration of a therapeutically effective amount of a compound as claimed in claim 1.

5 or neuropathic), both acute and chronic; opiate tolerance in patients
needing protracted opiate analgesics; benzodiazepine tolerance in
patients taking benzodiazepines; addictive behaviors, including nicotine
and eating disorders; systemic hypotension associated with septic or
10 toxic shock; an ocular condition ; systemic lupus erythematosus (SLE);
glomerulonephritis; restenosis; inflammatory sequelae of viral
infections; acute respiratory distress syndrome (ARDS); oxidant-
induced lung injury; complications associated with IL2 therapy;
cachexia; immunosuppression; disorders of gastrointestinal motility;
15 sunburn; eczema; psoriasis; gingivitis; pancreatitis; damage to the
gastrointestinal tract resulting from infections; cystic fibrosis; treatment
to a dysfunctional immune system; adenomatous polyposis; tumor
growth; and bronchitis.

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7. Use of a compound as claimed in claim 1 in the manufacture of a
medicament for the prophylaxis or treatment of a clinical condition for
which an inhibitor of nitric oxide synthase is indicated.

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8. A method of making crystalline (2*S*,5*Z*)-2-amino-2-methyl-7-[(1-
iminoethyl)amino]-5-heptenoic acid, 1.5 hydrochloride comprising the
steps of:

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- (a) Obtaining a non-crystalline form of (2*S*,5*Z*)-2-amino-2-methyl-
7-[(1-iminoethyl)amino]-5-heptenoic acid;
- (b) optionally adding hydrochloric acid until the (2*S*,5*Z*)-2-amino-2-
methyl-7-[(1-iminoethyl)amino]-5-heptenoic acid reaches 1.5
HCl equivalents; or
- (c) optionally adjusting hydrochloric acid concentration with an
appropriate base until the (2*S*,5*Z*)-2-amino-2- methyl-7-[(1-

iminoethyl)amino]-5-heptenoic acid reaches 1.5 HCl
equivalents; or

- 5 (d) optionally removing any other salt counterion from the (2*S*,5*Z*)-
2-amino-2-methyl-7-[(1-iminoethyl)amino]-5-heptenoic acid and
adding hydrochloric acid until the (2*S*,5*Z*)-2-amino-2-methyl-7-
[(1-iminoethyl)amino]-5-heptenoic acid reaches 1.5
hydrochloride equivalents;
- 10 (e) optionally seeding the (2*S*,5*Z*)-2-amino-2-methyl-7-[(1-
iminoethyl)amino]-5-heptenoic acid, 1.5 hydrochloride obtained
with crystalline (2*S*,5*Z*)-2-amino-2-methyl-7-[(1-
iminoethyl)amino]-5-heptenoic acid, 1.5 hydrochloride; and
- (f) optionally adding a solvent.